

CURA-99

SEQUENCE LISTING

<110> Shimkets, Richard A.  
Leach, Martin D.

<120> NUCLEIC ACIDS CONTAINING SINGLE NUCLEIC ACID POLYMORPHISMS AND  
METHODS OF  
USE THEREOF

<130> 15966-599

<150> 60/163,783

<151> 1999-11-24

<160> 1468

<170> CuraGen Patent Formatter Version 0.9

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<223> Accession number cg43925670

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51

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<223> Accession number cg38438124

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<210> 75

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<210> 83

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<223> Accession number cg43966692

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<223> Accession number cg43265754

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CURA-99

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<223> Accession number cg42914441

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51

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51

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<210> 118  
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<223> Accession number cg43070037

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51

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<210> 120  
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<220>  
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<400> 120  
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 42

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<400> 126  
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CURA-99

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ttccaaacat caaatgaagg gggataatgg ttaccactat cgttttcaac  
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<210> 136

<211> 51

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<210> 137

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<210> 138

<211> 51

<212> DNA

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<210> 142  
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CURA-99

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<210> 144  
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51

<210> 152  
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51

<210> 153  
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<221> misc\_feature  
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<223> Accession number cg43303871



CURA-99

<400> 153  
aataagggag aactactatt ttttttaaga tctcaaaata attaataata a  
51

<210> 154  
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<210> 155  
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51

<210> 156  
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<210> 157

<211> 51

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<221> misc\_feature

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<223> Accession number cg43936083

<400> 157

gctaactggt gacagttata aaaacgcaaa aaggagcctg ggaaacagca a  
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<210> 158

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<223> Accession number cg43936393

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<210> 159

<211> 50

<212> DNA

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actgtattat ttattttacat gggctaaaag caaagaaaaa tgagtcctt c  
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<210> 161  
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CURA-99

<222> (0)...(0)

<223> Accession number cg43940880

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<210> 162

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<223> Accession number cg43950657

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tttgggatcc tgatcaattc tttctaattg tgttgaaaat gacaaagttg g

51

<210> 163

<211> 51

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cagctgccaa aaccgtgtgt gcaagggcgc gacctaaggg gacattcttg t

51

<210> 164

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<223> Accession number cg43973740

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tgaagcaaac aaacaaacaa aaaaaggaga gcttcattag tagccaagat  
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<210> 165

<211> 51

<212> DNA

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<223> Accession number cg43980521

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<210> 166

<211> 51

<212> DNA

<213> Homo sapiens

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<223> single nucleotide polymorphism

<221> misc\_feature

<222> (0)...(0)

<223> Accession number cg43980521

<400> 166

ccctcagctt tgggggggtcc ttcttaaagg ggcttcctt ggcagaaggg g  
51

<210> 167

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51

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51

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51

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<223> Accession number cg43926814

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<210> 179

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<223> Accession number cg43926814

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## CURA-99

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51

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CURA-99

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<210> 202

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<223> Accession number cg44924222

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<223> Accession number cg43922383

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51

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<223> single nucleotide polymorphism

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<223> Accession number cg43922383

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51

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<223> Accession number cg43922383

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51

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51

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51

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51

<210> 218  
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<400> 218  
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<210> 219  
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CURA-99

<221> misc\_feature  
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CURA-99

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CURA-99

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<223> Accession number cg42549778

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<210> 274  
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CURA-99

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 <400> 280  
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 51  
  
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<220>

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<223> single nucleotide polymorphism

<221> misc\_feature

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<221> misc\_feature

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<223> Accession number cg35060315

<400> 281

ctattttatc catccatggt ctcccaatct gtgctttctt tcaacaggtt  
50

<210> 282

<211> 51

<212> DNA

<213> Homo sapiens

<220>

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<223> single nucleotide polymorphism

<221> misc\_feature

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<223> Accession number cg35060315

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51

<210> 283

<211> 51

<212> DNA

<213> Homo sapiens

<220>

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<223> single nucleotide polymorphism

<221> misc\_feature

<222> (0)...(0)

<223> Accession number cg35060315



CURA-99

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51

<210> 284  
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<220> . . . .  
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<223> single nucleotide polymorphism

<221> misc\_feature  
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cccaaactctg tgctttcttt caacacgtta tatattaaaa ctatttcattg a  
51

<210> 285  
<211> 42  
<212> DNA  
<213> Homo sapiens

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<223> single nucleotide polymorphism

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<223> Nucleotide deleted between bases 17 and 18

<221> misc\_feature  
<222> (0)...(0)  
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42

<210> 286  
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<223> Accession number cg43951096

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50

<210> 287  
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<400> 287  
cacagccata atatagagaa cagagttctc catgaacatc caccaggctg  
50

<210> 288  
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<221> misc\_feature  
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<223> Accession number cg43960676

CURA-99

<400> 288

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51

<210> 289

<211> 51

<212> DNA

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<222> (0)...(0)

<223> Accession number cg43323149

<400> 289

tcacctcaga tgagtgtggc tccccgcgct cccatactgc agcctgcccc t  
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<210> 290

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<212> DNA

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<223> single nucleotide polymorphism

<221> misc\_feature

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<223> Nucleotide deleted between bases 25 and 26

<221> misc\_feature

<222> (0)...(0)

<223> Accession number cg43969533

<400> 290

aagggaagcc tatcctatatt ttttttcctt tgcgaaaaca gaagccaagt  
50

<210> 291

<211> 50

<212> DNA

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<220>

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<223> single nucleotide polymorphism

<221> misc\_feature

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<223> Nucleotide deleted between bases 25 and 26

<221> misc\_feature

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<223> Accession number cg43969533

<400> 291

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50

<210> 292

<211> 51

<212> DNA

<213> Homo sapiens

<220>

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<223> single nucleotide polymorphism

<221> misc\_feature

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<223> Accession number cg39376027

<400> 292

ccggggaggt ggttcttggt atctgtgggg gagccgggac aggcgccccg a  
51

<210> 293

<211> 51

<212> DNA

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<220>

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<223> single nucleotide polymorphism

<221> misc\_feature

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<223> Accession number cg39376027

<400> 293

gggaggtggt tctggtaatc tggggtggag ccgggacagg cgccccgagt t  
51

<210> 294  
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<400> 294  
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51

<210> 295  
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<212> DNA  
<213> Homo sapiens

<220>  
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<223> single nucleotide polymorphism

<221> misc\_feature  
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<223> Accession number cg43085556

<400> 295  
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51

<210> 296  
<211> 51  
<212> DNA  
<213> Homo sapiens

<220>  
<221> allele  
<222> (26)...(0)  
<223> single nucleotide polymorphism

<221> misc\_feature  
<222> (0)...(0)  
<223> Accession number cg43085556

<400> 296

## CURA-99

caatatgtta gttctgggca attatcctgc aaattctgcc agataattaa a  
51

<210> 297

<211> 51

<212> DNA

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<220>

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<222> (26)...(0)

<223> single nucleotide polymorphism

<221> misc\_feature

<222> (0)...(0)

<223> Accession number cg43085556

<400> 297

aatatgttag ttctgggcaa ttatTTTtgc aattctgcca gataattaa g  
51

<210> 298

<211> 51

<212> DNA

<213> Homo sapiens

<220>

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<222> (26)...(0)

<223> single nucleotide polymorphism

<221> misc\_feature

<222> (0)...(0)

<223> Accession number cg43085556

<400> 298

ttgttgTtct caagctttTc gcctatattt tagactaacc ctgcttattc c  
51

<210> 299

<211> 51

<212> DNA

<213> Homo sapiens

<220>

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<223> single nucleotide polymorphism

<221> misc\_feature

<222> (0)...(0)

<223> Accession number cg43085556

<400> 299

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51

<210> 300

<211> 51

<212> DNA

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<220>

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<222> (26)...(0)

<223> single nucleotide polymorphism

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<222> (0)...(0)

<223> Accession number cg43085556

<400> 300

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51

<210> 301

<211> 51

<212> DNA

<213> Homo sapiens

<220>

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<222> (26)...(0)

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<222> (0)...(0)

<223> Accession number cg43920089

<400> 301

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<210> 302

<211> 50

<212> DNA

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<220>

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<222> (26)...(0)

<223> single nucleotide polymorphism

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<221> misc\_feature  
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50

<210> 303  
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<223> Accession number cg43950850

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51

<210> 304  
<211> 51  
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<220>  
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<222> (26)...(0)  
<223> single nucleotide polymorphism

<221> misc\_feature  
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<223> Accession number cg44128084

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51

<210> 305  
<211> 51



<212> DNA  
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<223> Accession number cg43976473

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51

<210> 306  
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<223> Accession number cg44924858

<400> 306  
gcttctgtca gacgttactt tcaccatgcc tgctgtttcc acaggaagag t  
51

<210> 307  
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<220>  
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<222> (0)...(0)  
<223> Accession number cg44924858

<400> 307  
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51

<210> 308  
<211> 51  
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<221> misc\_feature  
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<400> 308  
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<223> single nucleotide polymorphism  
  
<221> misc\_feature  
<222> (0)...(0)  
<223> Accession number cg43961591  
  
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<221> misc\_feature  
<222> (0)...(0)  
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51

<210> 311  
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<220>  
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<222> (26)...(0)  
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<222> (0)...(0)  
<223> Accession number cg43924285

<400> 311  
acattttcta gaaacaaaaa tatgtggtgg cccaaaggag ctcttaagca a  
51

<210> 312  
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<213> Homo sapiens

<220>  
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<222> (26)...(0)  
<223> single nucleotide polymorphism

<221> misc\_feature  
<222> (0)...(0)  
<223> Accession number cg43958224

<400> 312  
gtttgatcct cagccaggac gcacaagccc tacaagatcc cagccctcca a  
51

<210> 313  
<211> 50  
<212> DNA  
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<220>  
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<223> single nucleotide polymorphism

<221> misc\_feature

CURA-99

<222> (25)...(26)

<223> Nucleotide deleted between bases 25 and 26

<221> misc\_feature

<222> (0)...(0)

<223> Accession number cg43971060

<400> 313

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<210> 314

<211> 51

<212> DNA

<213> Homo sapiens

<220>

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<223> single nucleotide polymorphism

<221> misc\_feature

<222> (0)...(0)

<223> Accession number cg44927952

<400> 314

tatttttcat tgtacttatt attcactata cttactatat atatttaaaa c  
51

<210> 315

<211> 51

<212> DNA

<213> Homo sapiens

<220>

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<222> (26)...(0)

<223> single nucleotide polymorphism

<221> misc\_feature

<222> (0)...(0)

<223> Accession number cg19885484

<400> 315

aaacaacaaa ataaccaaac ataatcaac taatgctaca cagaatgtga t  
51

<210> 316

<211> 36

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<213> Homo sapiens

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<223> single nucleotide polymorphism

<221> misc\_feature  
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<223> Accession number cg42307356

<400> 316  
cggccgcggc tcggaacggc gcctcccgcc ccacca  
36

<210> 317  
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<212> DNA  
<213> Homo sapiens

<220>  
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<222> (26)...(0)  
<223> single nucleotide polymorphism

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<222> (0)...(0)  
<223> Accession number cg44005017

<400> 317  
tgggaggcct ggttgcccct cccggtgtgc tgggacactc tgggttcctg c  
51

<210> 318  
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<220>  
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<222> (26)...(0)  
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<221> misc\_feature  
<222> (0)...(0)  
<223> Accession number cg43329819

<400> 318  
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51

<210> 319

<211> 51  
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<222> (26)...(0)  
<223> single nucleotide polymorphism

<221> misc\_feature  
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<223> Accession number cg43329819

<400> 319  
agctctccta caagctggag gcaaatagtc agtgagagcg gggggggccag t  
51

<210> 320  
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<212> DNA  
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<220>  
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<222> (26)...(0)  
<223> single nucleotide polymorphism

<221> misc\_feature  
<222> (0)...(0)  
<223> Accession number cg43329819

<400> 320  
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51

<210> 321  
<211> 50  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> single nucleotide polymorphism

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<223> Nucleotide deleted between bases 25 and 26

<221> misc\_feature  
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<223> Accession number cg44015618

<400> 321

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<210> 322

<211> 50

<212> DNA

<213> Homo sapiens

<220>

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<222> (26)...(0)

<223> single nucleotide polymorphism

<221> misc\_feature

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<223> Nucleotide deleted between bases 25 and 26

<221> misc\_feature

<222> (0)...(0)

<223> Accession number cg44015618

<400> 322

accacacacg cacacacaca cacacctttg tggctcaagt gcaggccaca  
50

<210> 323

<211> 51

<212> DNA

<213> Homo sapiens

<220>

<221> allele

<222> (26)...(0)

<223> single nucleotide polymorphism

<221> misc\_feature

<222> (0)...(0)

<223> Accession number cg40361678

<400> 323

caacactttg ggaggccgag gcaggcggat cacctgaggt caggagttcg a  
51

<210> 324

<211> 51

<212> DNA

<213> Homo sapiens

<220>  
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 <222> (26)...(0)  
 <223> single nucleotide polymorphism

<221> misc\_feature  
 <222> (0)...(0)  
 <223> Accession number cg40361678

<400> 324  
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 51

<210> 325  
 <211> 51  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (26)...(0)  
 <223> single nucleotide polymorphism

<221> misc\_feature  
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 <223> Accession number cg40361678

<400> 325  
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 51

<210> 326  
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<220>  
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 <222> (26)...(0)  
 <223> single nucleotide polymorphism

<221> misc\_feature  
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<400> 326  
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 51

<210> 327  
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<212> DNA  
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<220>  
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<221> misc\_feature  
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<400> 327  
caaaggcggc aaagatgggg accagtacca cagccgccac gccacacctc c  
51

<210> 328  
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<220>  
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<222> (26)...(0)  
<223> single nucleotide polymorphism

<221> misc\_feature  
<222> (0)...(0)  
<223> Accession number cg43967912

<400> 328  
cattctctct ccaaaatttc tcagacttgt gcacaggact ccattccaac c  
51

<210> 329  
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<212> DNA  
<213> Homo sapiens

<220>  
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<222> (26)...(0)  
<223> single nucleotide polymorphism

<221> misc\_feature  
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<223> Accession number cg43967912

<400> 329  
aaaatttctc agatttgtgc acagggtcc attccaacct tccagattta a  
51

<210> 330  
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<223> single nucleotide polymorphism  
  
<221> misc\_feature  
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<223> Accession number cg43967912  
  
<400> 330  
atttgtgcac aggactccat tccaatcttc cagatttaag ttctgaactg t  
51  
  
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<222> (26)...(0)  
<223> single nucleotide polymorphism  
  
<221> misc\_feature  
<222> (0)...(0)  
<223> Accession number cg43132502  
  
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agtgggtggc accgccgagg ctgctattac ggctcatctt cattgatttg c  
51  
  
<210> 332  
<211> 51  
<212> DNA  
<213> Homo sapiens  
  
<220>  
<221> allele  
<222> (26)...(0)  
<223> single nucleotide polymorphism  
  
<221> misc\_feature  
<222> (0)...(0)  
<223> Accession number cg44924856

&lt;400&gt; 332

acacgcccag cagccgaatg atgttgggggt ccttgagcct cgacatgac t  
51

&lt;210&gt; 333

&lt;211&gt; 51

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; allele

&lt;222&gt; (26)...(0)

&lt;223&gt; single nucleotide polymorphism

&lt;221&gt; misc\_feature

&lt;222&gt; (0)...(0)

&lt;223&gt; Accession number cg43991318

&lt;400&gt; 333

agcactcccc tggctcaccc ttctcccctc gtggtccttt ttcacctggt g  
51

&lt;210&gt; 334

&lt;211&gt; 51

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; allele

&lt;222&gt; (26)...(0)

&lt;223&gt; single nucleotide polymorphism

&lt;221&gt; misc\_feature

&lt;222&gt; (0)...(0)

&lt;223&gt; Accession number cg41553795

&lt;400&gt; 334

ctgtgcacgt ggttgctcgt gagactgact accagagttt cgctgtcctg t  
51

&lt;210&gt; 335

&lt;211&gt; 51

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; allele

&lt;222&gt; (26)...(0)

&lt;223&gt; single nucleotide polymorphism

&lt;221&gt; misc\_feature

<222> (0)...(0)

<223> Accession number cg43973728

<400> 335

gcaaattcag atgcaaagcc gtggctaacg ggaagggttct tccgaatgat c  
51

<210> 336

<211> 51

<212> DNA

<213> Homo sapiens

<220>

<221> allele

<222> (26)...(0)

<223> single nucleotide polymorphism

<221> misc\_feature

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<223> Accession number cg43312829

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51

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51

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CURA-99

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&lt;220&gt;

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&lt;223&gt; single nucleotide polymorphism

&lt;221&gt; misc\_feature

&lt;222&gt; (0)...(0)

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cgatgcagaa atacgagaaa ctggagaaga ttggggaagg cacctacgga a  
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&lt;210&gt; 368

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&lt;223&gt; single nucleotide polymorphism

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&lt;223&gt; Accession number cg43982923

&lt;400&gt; 368

tggaaaagat tggggaaggc acctatggaa ctgtgttcaa ggccaaaaac c  
51

&lt;210&gt; 369

&lt;211&gt; 51

&lt;212&gt; DNA

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CURA-99

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CURA-99

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&lt;223&gt; single nucleotide polymorphism

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&lt;222&gt; (26)...(0)

&lt;223&gt; single nucleotide polymorphism

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&lt;222&gt; (0)...(0)

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CURA-99

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CURA-99

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&lt;223&gt; single nucleotide polymorphism

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CURA-99

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&lt;210&gt; 588

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&lt;210&gt; 589

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51

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CURA-99

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CURA-99

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CURA-99

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51

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&lt;223&gt; single nucleotide polymorphism

&lt;221&gt; misc\_feature

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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CURA-99

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## CURA-99

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CURA-99

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CURA-99

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<221> misc\_feature  
<222> (0)...(0)  
<223> Accession number cg43320682

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<210> 1080  
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<210> 1081  
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<223> single nucleotide polymorphism

<221> misc\_feature  
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<221> misc\_feature  
<222> (0)...(0)  
<223> Accession number cg43988975

<400> 1081  
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<210> 1082  
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<223> Accession number cg39523553

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<210> 1083  
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<223> single nucleotide polymorphism

<221> misc\_feature  
<222> (0)...(0)  
<223> Accession number cg43951096

<400> 1083  
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51

<210> 1084  
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<212> DNA  
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<223> Accession number cg44938009

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<210> 1086  
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<210> 1087  
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<400> 1087  
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<210> 1088  
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<223> Accession number cg43983590

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<210> 1089

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<222> (0)...(0)

<223> Accession number cg44128084

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cggcggcgca tgctcgacgt tctgggtctg tcgacgagtt gccggtgcaa  
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<210> 1090

<211> 50

<212> DNA

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<223> Accession number cg44128084

<400> 1090

cgtctgtcga cgagttgccg gtgcacgctg gagctgac gggatcctgg  
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<210> 1092  
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<213> Homo sapiens

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<223> Accession number cg40309770

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<210> 1093  
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<223> Accession number cg42725664

<400> 1093

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<210> 1094

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<212> DNA

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<223> single nucleotide polymorphism

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<222> (0)...(0)

<223> Accession number cg39380052

<400> 1094

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<210> 1095

<211> 50

<212> DNA

<213> Homo sapiens

<220>

<221> allele

<222> (26)...(0)

<223> single nucleotide polymorphism

<221> misc\_feature

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<221> misc\_feature

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&lt;222&gt; (0)...(0)

&lt;223&gt; Accession number cg44928804

&lt;400&gt; 1095

ctctcaatca tgccgcttta gagaagcaac atgggcaacc tgatttgtga  
50

&lt;210&gt; 1096

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1096

Asp Leu Leu Lys Glu Lys Val Ser Ile Tyr Gln Asn Gln Asn  
1 5 10

&lt;210&gt; 1097

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1097

Glu Ile Pro Ser Lys Glu Arg Pro Tyr Asp Ala Ala Lys Asp  
1 5 10

&lt;210&gt; 1098

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1098

Ala Ala Pro Ala Ala Ser Val Pro Arg Pro Ala Thr Leu Pro  
1 5 10

&lt;210&gt; 1099

&lt;211&gt; 14



<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1099  
Phe Trp Gly Gln Phe Gly Val Lys Thr Leu Lys Tyr Arg Ser  
1 5 10

<210> 1100  
<211> 14  
<212> PRT  
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<220>  
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<223> cSNP translation

<400> 1100  
Cys Glu Lys Ile Thr Cys His Lys Pro Asp Val Ser His Gly  
1 5 10

<210> 1101  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
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<223> cSNP translation

<400> 1101  
Pro Pro Arg Ser Glu Glu Ala Ala Val Leu Lys Gln Lys Leu  
1 5 10

<210> 1102  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
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<223> cSNP translation

<400> 1102

## CURA-99

Arg Gly Leu Ala Ser Ala Val Lys Gly Gly His Gly Gly Ala  
 1 5 10

<210> 1103  
 <211> 14  
 <212> PRT  
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<220>  
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 <223> cSNP translation

<400> 1103  
 Lys Lys Asp Asp Val Thr Ala Gly Lys Lys Pro Phe Arg Pro  
 1 5 10

<210> 1104  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1104  
 Asn Phe Phe Lys Leu Asn Asp Lys Ser Glu Lys Asp Lys Lys  
 1 5 10

<210> 1105  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
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 <222> (7)...(0)  
 <223> cSNP translation

<400> 1105  
 His Lys Glu Asp Ala Gly Ala Val Cys Ser Glu His Gln Ser  
 1 5 10

<210> 1106  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>

<221> VARIANT  
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<400> 1106

Leu Lys Lys Ala Arg Thr Gly Leu Gln Met Asp Glu Leu Lys  
 1 5 10

<210> 1107  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
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 <223> cSNP translation

<400> 1107

Lys Leu Asn Leu Lys Met Lys Glu Glu Tyr Asp Lys Ile Gln  
 1 5 10

<210> 1108  
 <211> 14  
 <212> PRT  
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<220>  
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 <222> (7)...(0)  
 <223> cSNP translation

<400> 1108

Leu Met Ser Val Lys Met Ala Lys Lys Tyr Lys Asn Ile Val  
 1 5 10

<210> 1109  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
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 <222> (7)...(0)  
 <223> cSNP translation

<400> 1109

Cys Asp Pro Glu Val Asn Asn Phe Arg Ala Lys Met Cys Gln  
 1 5 10

<210> 1110

<211> 14  
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<220>  
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<400> 1110  
 Glu Phe Gly Gly Gly His Val Lys Asp Glu Val Phe Gly Thr  
 1 5 10

<210> 1111  
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<220>  
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 <223> cSNP translation

<400> 1111  
 Cys Ser Ser Arg Ser Asp Val Pro Gly Ser Asp Lys Asp Thr  
 1 5 10

<210> 1112  
 <211> 14  
 <212> PRT  
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<220>  
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 <223> cSNP translation

<400> 1112  
 Gly Gly Met Thr Thr Lys Ile Glu Ala Ala Arg Met Ala Thr  
 1 5 10

<210> 1113  
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<400> 1113  
Leu Arg Gly Ala Asn Pro Asn Leu Lys Asp Arg Thr Gly Phe  
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<210> 1114  
<211> 14  
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<220>  
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<400> 1114  
Asn Leu His Thr Leu Asn Asn Tyr Gln Lys Leu Leu Gly Asn  
1 5 10

<210> 1115  
<211> 14  
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<220>  
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<400> 1115  
Leu Lys Glu Met Lys Glu Val Leu Gly Thr Pro Gly Ala Ala  
1 5 10

<210> 1116  
<211> 14  
<212> PRT  
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<220>  
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<400> 1116  
Pro Gly Gly Cys Ser Ala Ile Ser Ala His Gly Cys Leu Phe  
1 5 10

<210> 1117  
<211> 14  
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<213> Homo sapiens

<220>  
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 <222> (7)...(0)  
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<400> 1117  
 Gly Glu Glu Tyr Phe Tyr Ile Ala Thr Gln Gly Pro Leu Leu  
 1 5 10

<210> 1118  
 <211> 14  
 <212> PRT  
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<220>  
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<400> 1118  
 Pro Ile Gly Gly Arg Asn Ile Gln Gly Gly Ile Arg Phe Gly  
 1 5 10

<210> 1119  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
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<400> 1119  
 Lys Asn Lys Met Glu Ile His Glu Asp Pro Lys Phe Leu Ile  
 1 5 10

<210> 1120  
 <211> 14  
 <212> PRT  
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<220>  
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<400> 1120  
 Ala Gln Glu Asn Gln Gly Ile Phe Phe Ser Gly Asp Ser Tyr  
 1 5 10

<210> 1121  
 <211> 14  
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<220>  
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 <223> cSNP translation

<400> 1121  
 Lys Tyr Asp Met Glu Val Lys Val Gln Lys Thr Ser Lys Glu  
 1 5 10

<210> 1122  
 <211> 14  
 <212> PRT  
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<220>  
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<400> 1122  
 Ser Arg Gly Phe Thr Tyr Arg Leu His Phe Trp Leu Gly Lys  
 1 5 10

<210> 1123  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
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 <222> (7)...(0)  
 <223> cSNP translation

<400> 1123  
 Met Asn Gln Leu Ser His Ile Asn Leu Ile Gln Leu Tyr Asp  
 1 5 10

<210> 1124  
 <211> 14  
 <212> PRT  
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<220>  
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&lt;400&gt; 1124

Leu Thr Glu Leu Asp Val Ile Leu Phe Thr Arg Gln Ile Cys  
 1 5 10

&lt;210&gt; 1125

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1125

Glu Tyr Ala Lys Tyr Cys Thr Glu Ile Leu Gly Val Ala Ala  
 1 5 10

&lt;210&gt; 1126

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1126

Asn Val Gly Pro Gln Met Val Ile Ser Thr Pro Gln Arg Leu  
 1 5 10

&lt;210&gt; 1127

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1127

Ala Ala His Met Ala Ala Ser Ala Ile Leu Asn Leu Ser Thr  
 1 5 10

&lt;210&gt; 1128

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens



<220>  
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<400> 1128  
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 1 5 10

<210> 1129  
 <211> 14  
 <212> PRT  
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<220>  
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 <222> (7)...(0)  
 <223> cSNP translation

<400> 1129  
 Lys Pro Ser Ala Ala Glu Arg Pro Ser His Gly Glu Gly Pro  
 1 5 10

<210> 1130  
 <211> 14  
 <212> PRT  
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<220>  
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<400> 1130  
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<210> 1131  
 <211> 14  
 <212> PRT  
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<220>  
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 <222> (7)...(0)  
 <223> cSNP translation

<400> 1131  
 Asn Ser Ile Ser Val Arg Val Phe Leu Asp Glu Asp Asp Met  
 1 5 10

<210> 1132  
 <211> 14  
 <212> PRT  
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<220>  
 <221> VARIANT  
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 <223> cSNP translation

<400> 1132  
 Gln Glu Asn Glu Asp Asn Arg Gln His Lys Glu Ser Leu Lys  
 1 5 10

<210> 1133  
 <211> 14  
 <212> PRT  
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<220>  
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 <222> (7)...(0)  
 <223> cSNP translation

<400> 1133  
 Ser Ala Lys Lys Pro Ser Ser Gly Ser Arg Tyr Gln Pro Leu  
 1 5 10

<210> 1134  
 <211> 14  
 <212> PRT  
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<220>  
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 <222> (7)...(0)  
 <223> cSNP translation

<400> 1134  
 Asp Gly Trp Leu Glu Gly Ala Arg Leu Ser Asp Gly Glu Arg  
 1 5 10

<210> 1135  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)

<223> cSNP translation

<400> 1135

Gly Lys Asn Ser Ser Tyr Ala His Gly Gly Leu Asp Ser Asn  
1 5 10

<210> 1136

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1136

Ser Asn Glu Ser Leu Val Ala Asn Arg Val Thr Gly Asn Phe  
1 5 10

<210> 1137

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1137

Ser Tyr Ser Gln Ala Gly Val Thr Glu Thr Glu Trp Thr Ser  
1 5 10

<210> 1138

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1138

Glu Pro Lys Ser Leu Leu Thr Leu Gly Ser Tyr Pro Pro Ala  
1 5 10

<210> 1139

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1139

Phe Trp Ile Val Phe Ser Val Ile His Ile Ile Ala Thr Leu  
1 5 10

<210> 1140

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1140

Tyr Val Asp Pro Asp Arg Ile Lys Arg Ala Gln Ser Tyr Ala  
1 5 10

<210> 1141

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1141

Glu Arg Leu Glu Arg Leu Glu Arg Glu Arg Gln Glu Arg Glu  
1 5 10

<210> 1142

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1142

Arg Asp Lys Glu Arg Glu His Gln Arg Asp Trp Glu Asp Lys

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<210> 1143  
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 <213> Homo sapiens  
  
 <220>  
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 <222> (7)...(0)  
 <223> cSNP translation  
  
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 Tyr Ser Ser Ser Gly Pro Asp Leu Arg Arg Ser Leu Phe Ser  
 1 5 10

<210> 1144  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation  
  
 <400> 1144  
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 1 5 10

<210> 1145  
 <211> 14  
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 <213> Homo sapiens  
  
 <220>  
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 <222> (7)...(0)  
 <223> cSNP translation  
  
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 1 5 10

<210> 1146  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1146

Leu	Gln	Glu	Lys	Leu	Trp	Val	Ile	Leu	Gln	Ala	Thr	Tyr	Ile
1				5					10				

&lt;210&gt; 1147

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1147

Cys	Gly	Lys	Ser	Val	Tyr	Val	Ala	Glu	Lys	Val	Met	Gly	Gly
1				5					10				

&lt;210&gt; 1148

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1148

Lys	Ser	Lys	Ser	Asn	Ser	Thr	Ala	Ala	Arg	Glu	Pro	Asn	Gly
1				5					10				

&lt;210&gt; 1149

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1149

Leu	Ser	Pro	Gly	Gly	Glu	Phe	Gln	Lys	Trp	Asn	Gly	Thr	Ala
1				5					10				

&lt;210&gt; 1150

&lt;211&gt; 14

<212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1150  
 Gln Leu Gln Leu Gln Ala Val His Ala Gln Glu Gln Ile Cys  
 1 5 10

<210> 1151  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1151  
 Leu Leu Thr Asp Gly Asp Leu His Ile Arg Asp Asp Gly Arg  
 1 5 10

<210> 1152  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1152  
 Gly Lys Arg Leu Phe Val Ile Lys Pro Ser Leu Tyr Tyr Asp  
 1 5 10

<210> 1153  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1153

## CURA-99

Leu Val Pro Asp Glu Asp Val Arg Ala Ala Lys Trp Ala Val  
 1 5 10

<210> 1154  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1154  
 Val Val Arg Asn Ser Pro Arg Gly Val Lys Val Gln Met Ala  
 1 5 10

<210> 1155  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1155  
 Ala Leu Ser Ala Trp Pro Gln Leu Asp Gln Ala Ser Arg Cys  
 1 5 10

<210> 1156  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1156  
 Ile Trp Ser Phe Cys Phe Tyr Val Val Thr Val Phe Ser Val  
 1 5 10

<210> 1157  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>



<221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1157

Asn Leu Ser Asn Phe Leu Asn Lys Ser Gly Leu Gln Gly Tyr  
 1 5 10

<210> 1158  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1158

Thr Ser Ser Ser Lys Asn Arg Asp Pro Ile Thr Ile Val Asp  
 1 5 10

<210> 1159  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1159

Arg Leu His Asn Glu Val Asp Arg Lys Leu Gly Lys Pro Asp  
 1 5 10

<210> 1160  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1160

Met Leu Leu Pro Ser Trp Arg Thr Ser Ser Tyr Val Gly Ala  
 1 5 10

<210> 1161

## CURA-99

<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1161  
Gly Leu Leu Gly Thr Leu Ile Ala Met Leu Leu Pro Ser Trp  
1 5 10

<210> 1162  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1162  
Val Lys Thr Pro Glu Thr Ile Val Pro Thr Ala Pro Glu Leu  
1 5 10

<210> 1163  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1163  
Gln Pro Ser Thr Ser Thr Asn Gln Pro Val Thr Ser Glu Pro  
1 5 10

<210> 1164  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

## CURA-99

&lt;400&gt; 1164

Asn Val Val Arg Ala Met Val Asp Asn Trp Asp Val Leu Phe  
1 5 10

&lt;210&gt; 1165

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1165

Gln Ala Arg His Arg Thr Gly Gly Thr Asn Thr Pro Pro Ser  
1 5 10

&lt;210&gt; 1166

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1166

Phe Lys Asn Ile Lys Ser Ala Thr Glu Leu Asn Gly Asp Ile  
1 5 10

&lt;210&gt; 1167

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1167

Glu Leu Ala Ile Asn Pro Val Gly Asp Arg Ile Ile Asn Ala  
1 5 10

&lt;210&gt; 1168

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1168  
 Asn Gly Thr Leu Ser Arg Asp Asp Phe Gln Arg Ile Pro Glu  
 1 5 10

<210> 1169  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1169  
 Lys His Met Glu Met Glu Asp Ile Ser Ser Glu Glu Val Val  
 1 5 10

<210> 1170  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1170  
 Ile Ser Pro Leu Thr Pro Ile Ser Val Ser Pro Ala Asn Arg  
 1 5 10

<210> 1171  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1171  
 Cys Pro Pro Asp Tyr His Tyr Ile His Thr Glu Ile Ser Arg  
 1 5 10

<210> 1172  
 <211> 6  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1172  
 Arg His Thr Asp Leu Asp  
 1 5

<210> 1173  
 <211> 5  
 <212> PRT  
 <213> Homo sapiens

<400> 1173  
 Ser Phe Leu Val Arg  
 1 5

<210> 1174  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1174  
 Gly Ile Pro Gly Gly Pro Gly Gly Pro Gly Cys Gln Glu Leu  
 1 5 10

<210> 1175  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1175  
 Lys Tyr His Gly Val Ser Pro Leu Asn Pro Pro Glu Thr Leu  
 1 5 10

<210> 1176  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1176  
Glu Arg Val Val Gly Arg His Arg Ser Pro Cys Met Gln Asp  
1 5 10

<210> 1177  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1177  
Thr Val Tyr Pro Pro Leu Leu Ser Ile Gln Ala His Ser Gly  
1 5 10

<210> 1178  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1178  
Leu Ala Leu Pro Ser Val Thr Leu Cys Thr Phe Asn Ser Tyr  
1 5 10

<210> 1179  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

## CURA-99

&lt;400&gt; 1179

Pro Asn Val Tyr His Glu Pro Lys Leu Ala Ala Lys Glu Tyr  
 1 5 10

&lt;210&gt; 1180

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1180

Asn Leu Gln Ser Lys Thr Ala Gly Leu His Val Thr Glu Tyr  
 1 5 10

&lt;210&gt; 1181

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1181

Ser Ser Ile Ile Ala Asp Gln Ile Ala Leu Lys Leu Val Gly  
 1 5 10

&lt;210&gt; 1182

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1182

Ala Gly Gly Ile Arg His Thr Pro Asp Glu Ile Phe Leu Leu  
 1 5 10

&lt;210&gt; 1183

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1183  
 Leu Asp Ile Ala Thr Asp His Val Gln Lys Arg Lys Gln Phe  
 1 5 10

<210> 1184  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1184  
 Pro Lys Ser Gly Asp Trp Phe Cys Pro Asn Pro Ser Cys Gly  
 1 5 10

<210> 1185  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1185  
 Ala Val Pro Gly Ala Leu Cys Pro Leu Thr Ile Thr Ser Ser  
 1 5 10

<210> 1186  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1186  
 Ile Asn Lys Gln Val Glu Pro Tyr Arg Glu Glu Ser Gln Lys  
 1 5 10



<210> 1187  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1187  
 Arg Glu Glu Ser Gln Lys Cys Leu Lys Glu Phe Gln Glu Asn  
 1 5 10

<210> 1188  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1188  
 Glu Asp Phe Lys Lys Asp Val Lys Asn Ser Leu Arg Glu Thr  
 1 5 10

<210> 1189  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1189  
 Met Lys Asn Ser Leu Arg Gly Thr Gln Glu Asn Ile Asn Lys  
 1 5 10

<210> 1190  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)

<223> cSNP translation

<400> 1190

Glu Thr Gln Glu Asn Ile Ser Lys Gln Val Glu Ala Tyr Arg  
1 5 10

<210> 1191

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1191

Thr Gln Glu Asn Ile Asn Glu Gln Val Glu Ala Tyr Arg Glu  
1 5 10

<210> 1192

<211> 6

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1192

Ile Val Thr Ala Thr Glu  
1 5

<210> 1193

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1193

Met Gly Gly Gly Arg Asp Pro Glu Glu Met Glu Ile Asp Gly  
1 5 10

<210> 1194

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1194

Glu Val Lys Arg Lys Gln Cys Asp Ala Tyr Gly Ser Ala Gly  
1 5 10

<210> 1195

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1195

Asn Tyr Arg Asn Asn Pro Ser His Asn Phe Arg His Cys Phe  
1 5 10

<210> 1196

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1196

Leu Leu Arg His His Gly Gly Thr Val Leu Pro Ser Leu Asp  
1 5 10

<210> 1197

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1197

Leu Ser Thr Tyr Ser Leu Asp Trp Val Met Ala Ala Val Val

1

5

10

&lt;210&gt; 1198

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1198

Ile Ile Cys Cys Ser Glu Leu Pro Val Val Lys Thr Glu Met

1

5

10

&lt;210&gt; 1199

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1199

Glu Asn Gly Asp Phe Ala Ser Phe Arg Val Glu Arg Ala Glu

1

5

10

&lt;210&gt; 1200

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1200

Cys Lys Gln Thr Ala Gly Gln Gly Ser Pro Cys Glu Glu Gln

1

5

10

&lt;210&gt; 1201

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1201

Asn	Lys	Glu	Lys	Thr	Glu	Phe	Gly	Thr	His	Pro	Lys	Gly	Thr
1				5					10				

&lt;210&gt; 1202

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1202

Leu	Leu	Pro	Phe	Lys	Ser	Pro	Ser	Gly	Asn	Asp	Val	Glu	Ala
1				5					10				

&lt;210&gt; 1203

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1203

Leu	Met	Glu	Glu	Lys	Phe	Pro	Gly	Asp	Ala	Gly	Leu	Gly	Lys
1				5					10				

&lt;210&gt; 1204

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1204

Asn	Asp	Leu	Lys	Leu	Asn	Ser	Lys	Met	Arg	Glu	Glu	Tyr	Asp
1				5					10				

&lt;210&gt; 1205

&lt;211&gt; 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1205

Met	Gly	Lys	Lys	Tyr	Lys	Lys	Ile	Val	Leu	Leu	Lys	Gly	Leu
1				5					10				

<210> 1206

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1206

Ser	Val	Lys	Met	Gly	Lys	Asn	Tyr	Lys	Asn	Ile	Val	Leu	Leu
1				5					10				

<210> 1207

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1207

Leu	Trp	Lys	Thr	Gln	Lys	Leu	Ser	Leu	Trp	Glu	Ala	Pro	Arg
1				5					10				

<210> 1208

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1208

## CURA-99

Asp Leu Ile Trp Thr Leu Leu Gln Asp Cys Arg Glu Ile Phe  
 1 5 10

<210> 1209  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1209  
 Ala Trp Leu Pro Pro Thr Pro Ala Glu His Asp His Ser Leu  
 1 5 10

<210> 1210  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1210  
 Asp Phe Gly Leu Ser Lys Ile Gly Leu Met Ser Leu Thr Thr  
 1 5 10

<210> 1211  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1211  
 Gly Asn Ser Arg Val Trp Arg Gly Thr Met Glu Lys Ala Gly  
 1 5 10

<210> 1212  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>

<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1212  
Thr Val Lys His Gly Ala Arg Ala Glu Ile Ser Thr Val Asn  
1 5 10

<210> 1213  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1213  
Ala Thr Arg Ala Thr Leu Glu Lys Glu Phe Gly Gly Gly His  
1 5 10

<210> 1214  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1214  
Ala Thr Leu Lys Lys Glu Ser Gly Gly Gly His Ile Lys Asp  
1 5 10

<210> 1215  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1215  
Thr Ile Lys Ser His Ser Asn Leu Pro Pro Asn Asn Ser Tyr  
1 5 10

<210> 1216



<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1216  
Val Val Glu Asp Ile Asp Thr Leu Asp Val Asp Thr His Lys  
1 5 10

<210> 1217  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1217  
Val Ser Ile Phe Asn Leu Gly Gly Met Glu His His Val Arg  
1 5 10

<210> 1218  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1218  
Pro Ala Gln Asp Asp Arg Pro Phe Tyr Gln Phe Glu Ala Ala  
1 5 10

<210> 1219  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

## CURA-99

&lt;400&gt; 1219

Glu	Arg	Leu	Gln	Glu	Thr	Gly	Lys	Ile	Ile	Ala	Glu	Leu	Asn
1				5					10				

&lt;210&gt; 1220

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1220

Pro	Glu	Asn	Val	Val	Phe	His	Val	Gly	Gly	Tyr	Pro	Pro	Asp
1				5					10				

&lt;210&gt; 1221

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1221

Asp	Ser	Val	Trp	Met	Glu	Val	Asp	Asp	Glu	Glu	Asp	Leu	Pro
1				5					10				

&lt;210&gt; 1222

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1222

Ser	Thr	Thr	Gly	Thr	Pro	Leu	Ser	Ser	Ala	Pro	Asp	Pro	Lys
1				5					10				

&lt;210&gt; 1223

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1223  
 Gln Arg Arg Leu Asp Gln Phe Ile Gly Lys Pro Ser Leu Phe  
 1 5 10

<210> 1224  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1224  
 Pro Pro Pro Trp Ser Lys Tyr Val Glu Tyr Thr Phe Thr Gly  
 1 5 10

<210> 1225  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1225  
 Thr Phe Gly Phe Gln Gly Lys Ala Leu Ser Ser Leu Cys Ala  
 1 5 10

<210> 1226  
 <211> 6  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1226  
 Lys Leu Asn Thr Ser Asn  
 1 5

## CURA-99

<210> 1227  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1227  
Ile Arg Asn Ala Gln Leu Arg Gly Leu Ile Ile Ala Pro Glu  
1 5 10

<210> 1228  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1228  
Gly Lys Leu Val Leu Asn Gln Asn Pro Val Asn Tyr Phe Ala  
1 5 10

<210> 1229  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1229  
Glu Tyr Gln Val Leu Phe Gly Ala Leu Ile Ser Pro Asp Arg  
1 5 10

<210> 1230  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

&lt;400&gt; 1230

Gln	Arg	Asp	Leu	Gly	Tyr	Val	Pro	Leu	Val	Ser	Trp	Glu	Glu
1				5					10				

&lt;210&gt; 1231

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1231

Cys	Thr	Ala	Ser	Ala	Thr	Leu	Ser	Cys	Asn	Asp	Leu	Cys	Glu
1				5					10				

&lt;210&gt; 1232

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1232

Arg	Pro	Leu	Thr	Thr	Gln	His	Pro	Gln	Ser	Gly	Thr	Leu	Lys
1				5					10				

&lt;210&gt; 1233

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1233

Gly	Ser	Leu	Ala	Arg	Ala	Glu	Glu	Ala	Gly	Lys	Leu	Glu	Glu
1				5					10				

&lt;210&gt; 1234

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1234  
 Lys Ile Ile Lys Val Lys Ser Val Lys Asp Arg Glu Asp Val  
 1 5 10

<210> 1235  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1235  
 Ala Leu Arg Ser Leu Gln Ser Arg Cys Leu Val Pro Gly Tyr  
 1 5 10

<210> 1236  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1236  
 Ile Ser Ala Ser Ser Gln Ala Pro Leu Ala Leu Arg Ser Leu  
 1 5 10

<210> 1237  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1237  
 Thr Lys Asn Ser Val Met Ser Lys Leu Tyr Gly Asp Ala Asp  
 1 5 10

<210> 1238  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1238  
 Leu Leu Arg Pro Gly Ser Ser Ala Arg Val Val Gln Cys Ile  
 1 5 10

<210> 1239  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1239  
 Cys Asp Arg Ser Trp Ile Asn Asp Gln Tyr Asp Arg Phe Val  
 1 5 10

<210> 1240  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1240  
 Thr Gly Asp Lys Arg Phe Gly Cys Ala Gln Cys Gln Lys Arg  
 1 5 10

<210> 1241  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)

<223> cSNP translation

<400> 1241

Thr Ser Val Gly Pro Asn Thr Val Ser Pro Ser Ser Gly Pro  
1 5 10

<210> 1242

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1242

Cys Glu Gln Gly Phe Ser Arg Lys Ser His Leu Ile Arg His  
1 5 10

<210> 1243

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1243

Thr Leu Tyr His His Val Asp Gly Cys Asp Val Phe His Leu  
1 5 10

<210> 1244

<211> 6

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1244

Met Ala Leu Phe Thr Pro  
1 5

<210> 1245

<211> 14

<212> PRT



<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1245

Cys Ile Asn Val Leu Val Pro Gly Phe Ile Met Val Ser Gly  
1 5 10

<210> 1246

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1246

Thr Val Ser Ile Ser Ile Trp Ala Ser Leu Gln Gln Thr Gln  
1 5 10

<210> 1247

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1247

Ser Glu Leu Asn Gln Pro Pro Glu Leu Leu Pro Gln Phe Ser  
1 5 10

<210> 1248

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1248

Thr Pro Gln His Cys Ser Arg Asn Asn Phe Thr Met Arg Leu

1

5

10

&lt;210&gt; 1249

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1249

Trp Leu Lys Gly Gly Glu Gln His Ser Ala Leu Pro Glu Gln

1

5

10

&lt;210&gt; 1250

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1250

Ile Thr Gly Thr Phe Lys Tyr Arg Lys Met Thr Leu Val Glu

1

5

10

&lt;210&gt; 1251

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1251

Cys Asp Gln Lys Pro Cys Asn Cys Pro Lys Gly Asp Val Asn

1

5

10

&lt;210&gt; 1252

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1252

Pro	Gly	Leu	Gly	Ser	Pro	Glu	Arg	Tyr	Ser	Pro	Val	His	Gly
1				5					10				

&lt;210&gt; 1253

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1253

Gly	Ala	Val	Leu	Val	Leu	Tyr	Ser	Leu	Pro	Leu	Glu	Phe	Pro
1				5					10				

&lt;210&gt; 1254

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1254

Ile	Glu	Ala	Glu	Ser	Ser	Asn	Leu	Thr	Ser	Val	Thr	Thr	Glu
1				5					10				

&lt;210&gt; 1255

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1255

Leu	Thr	Trp	Pro	Ala	Asp	Thr	Leu	His	Cys	Thr	Glu	Cys	Val
1				5					10				

&lt;210&gt; 1256

&lt;211&gt; 14

<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1256  
Leu Thr Ser Ser Tyr Ser Leu Asp Val Ser Asp Tyr Lys Glu  
1 5 10

<210> 1257  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1257  
Lys Lys Val Glu Phe Val Pro Lys Gln Leu Arg Ile Met Gln  
1 5 10

<210> 1258  
<211> 6  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1258  
Val Leu Gln Ala Gly Ala  
1 5

<210> 1259  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1259

## CURA-99

Glu Ser Val Gln Gln Gln Thr Glu Phe Leu Asn Arg Gln Leu  
 1 5 10

<210> 1260  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1260  
 Asn Pro Phe Gly Pro Val Pro Gly Ala Gln Ile Gln Phe  
 1 5 10

<210> 1261  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1261  
 Gly Cys Val Asp Ile Ala Glu Ile Leu Leu Ala Ala Lys Cys  
 1 5 10

<210> 1262  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1262  
 Ser Glu Ser Ser Ile Lys Glu Lys Phe Leu Lys Arg Lys Gly  
 1 5 10

<210> 1263  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>

<221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1263  
 Asn Leu Val Pro Val Arg Met Phe Met Ala His Gln Asp Leu  
 1 5 10

<210> 1264  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1264  
 Gln Arg Lys Arg Leu Gln Pro Gln Leu Glu Glu Arg Ser Arg  
 1 5 10

<210> 1265  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1265  
 Phe Leu Tyr Ile Ser Leu Thr Asp Met Phe Pro Glu Met Asn  
 1 5 10

<210> 1266  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1266  
 Gly His Thr Leu Asp Val Leu Lys Arg Lys Phe His Tyr Phe  
 1 5 10

<210> 1267

<211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1267  
 Gly Lys Thr Val Leu Ser Leu Gly Phe Thr Glu Val Met Pro  
 1 5 10

<210> 1268  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1268  
 Leu Ser Leu Ile Ile Gly His Pro Ile Ala Val Leu Met Tyr  
 1 5 10

<210> 1269  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1269  
 Gln Glu Glu Gln Met Glu Pro Glu Gln Gln Asn Lys Asp Glu  
 1 5 10

<210> 1270  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

## CURA-99

&lt;400&gt; 1270

Glu Ala Gln Arg Leu Ile Thr Gln Gln Gly Leu Val Asp Gly  
1 5 10

&lt;210&gt; 1271

&lt;211&gt; 6

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1271

Ser Pro Gly Lys Cys Asp  
1 5

&lt;210&gt; 1272

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1272

Leu Thr Ser Ser Glu Leu Pro Gln Arg Leu Lys Thr Ile Gly  
1 5 10

&lt;210&gt; 1273

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1273

Ser His His Asp Pro Ile Ile Lys Val Leu Ser Ile Arg Gly  
1 5 10

&lt;210&gt; 1274

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens



&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1274

Ser	Ser	Glu	Lys	Ile	Ser	Tyr	Asn	Pro	Trp	Ser	Leu	Arg	Cys
1				5					10				

&lt;210&gt; 1275

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1275

Asn	Phe	Lys	His	Ala	Ser	Ser	Ile	Leu	Pro	Ile	Thr	Glu	Phe
1				5					10				

&lt;210&gt; 1276

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1276

Pro	Ile	Ala	Glu	Thr	Ile	Lys	Ala	Ser	Ser	Asn	Glu	Ser	Leu
1				5					10				

&lt;210&gt; 1277

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1277

Thr	Ser	Leu	Ala	Pro	Ala	Ser	Leu	Ile	Thr	Met	Pro	Ala	Thr
1				5					10				

## CURA-99

<210> 1278  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1278  
Lys Glu Trp Val Asp Lys Cys Asp Pro Gly Ala Leu Val Ile  
1 5 10

<210> 1279  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1279  
Ser Pro Arg Met Pro Ser Phe Gly Phe Ala Ala Glu Gly Arg  
1 5 10

<210> 1280  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1280  
Ser Ile Ile His Ile Ile Ser Thr Leu Leu Leu Ser Thr Gln  
1 5 10

<210> 1281  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

&lt;400&gt; 1281

Lys Glu Glu Leu Asp Arg Ser Cys Arg Glu Cys Lys Arg Lys  
 1 5 10

&lt;210&gt; 1282

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1282

Arg Asp Arg Asp Arg Glu Gly Asp Arg Asp Arg Asp Arg Asp  
 1 5 10

&lt;210&gt; 1283

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1283

Lys Glu Ser Glu Leu Gln Val Thr Ser Ala Ala Ser Pro His  
 1 5 10

&lt;210&gt; 1284

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1284

Gly Ser Ser Arg Ser His Cys Arg Glu Glu Arg Ser Arg Arg  
 1 5 10

&lt;210&gt; 1285

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1285  
 Ser Ala Ala Ser Ser Val Leu Arg Arg Glu Tyr Lys Pro Arg  
 1 5 10

<210> 1286  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1286  
 Asp Ile Pro Ile Ile Leu Phe Gly Asn Lys Ser Asp Leu Val  
 1 5 10

<210> 1287  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1287  
 Ile Arg Phe Arg Gln Asp Ser Asn Glu Ala Val Gly Gly Phe  
 1 5 10

<210> 1288  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1288  
 Thr Thr Val Phe Glu Asp Pro Tyr Asp Tyr Met Asn Ser Leu  
 1 5 10

<210> 1289  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1289  
 Pro Arg Gln Asn Ser Gln Pro Pro Ala Gln Val Gln Asn Gly  
           1                          5                          10

<210> 1290  
 <211> 6  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1290  
 Gln Gln Lys Leu Trp Asn  
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<210> 1291  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
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 <222> (7)...(0)  
 <223> cSNP translation

<400> 1291  
 Ala Ile Glu Thr Gln Leu Pro Glu Tyr His Lys Leu Ala Arg  
           1                          5                          10

<210> 1292  
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 <212> PRT  
 <213> Homo sapiens

<220>  
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 <222> (7)...(0)

<223> cSNP translation

<400> 1292

Asn Lys Lys Met Gly Leu Gly Asp Thr Leu Glu Gln Leu Asn  
1 5 10

<210> 1293

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1293

Phe Ser Thr Pro Glu Ala Arg Gly Glu His Gly Leu Ala Pro  
1 5 10

<210> 1294

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1294

Gln Lys Phe Gln Val Asp Lys Ser Asn Arg Leu Leu Leu Gln  
1 5 10

<210> 1295

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1295

Gln Gln Val Ser Leu Pro Tyr Ile Pro Gly Asn Tyr Thr Val  
1 5 10

<210> 1296

<211> 14

<212> PRT

<213> Homo sapiens

<220>

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<222> (7)...(0)

<223> cSNP translation

<400> 1296

Lys Glu Glu Glu Gln Ala Glu Lys Asn Lys Leu Ser Gly Lys  
1 5 10

<210> 1297

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1297

Val Ser Leu Pro Lys Leu Thr Asn Val Gln Leu Leu Asp Thr  
1 5 10

<210> 1298

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1298

Asn Val Gln Leu Leu Asp Ile Asp Gly Gly Phe Val His Ser  
1 5 10

<210> 1299

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1299

Tyr Gln Glu Glu Leu Arg Phe His Tyr Lys Asp Met Leu Ser

1

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&lt;210&gt; 1300

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1300

Asn Phe Pro Ile Thr Phe Thr Cys Tyr Ala Ala Leu Phe Cys

1

5

10

&lt;210&gt; 1301

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1301

Arg Asp Glu His Leu His Lys Met Ala Leu Glu Gln Ile Thr

1

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&lt;210&gt; 1302

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1302

Ile Ala Thr Lys Glu Glu Ile Ser Leu Leu Glu Ala Trp Lys

1

5

10

&lt;210&gt; 1303

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT



&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1303

Phe	Thr	Trp	Leu	Ser	Pro	Glu	Gly	Glu	Tyr	Gln	Lys	Trp	Asn
1				5					10				

&lt;210&gt; 1304

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1304

Gly	Pro	Leu	Pro	Glu	Asn	Val	Thr	Trp	Leu	Ser	Pro	Gly	Gly
1				5					10				

&lt;210&gt; 1305

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1305

Val	Phe	Asn	Ser	Asp	Glu	Ser	Ser	Trp	His	Leu	Val	Glu	Asp
1				5					10				

&lt;210&gt; 1306

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1306

Arg	Lys	Ser	Phe	Val	Phe	Gly	Leu	Asn	Glu	Cys	Ala	Ser	Ser
1				5					10				

&lt;210&gt; 1307

&lt;211&gt; 6

<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1307  
Gly Gln Glu Tyr His Leu  
1 5

<210> 1308  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1308  
Lys Asp Gly Ala Pro Trp Phe Gly Arg His Tyr Cys Glu Ser  
1 5 10

<210> 1309  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1309  
Tyr Ser Ser Thr Asp Thr Leu Tyr Pro Gly Ser Leu Pro Pro  
1 5 10

<210> 1310  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1310

## CURA-99

Ile Leu Asn Ser Lys Asp Gln Leu Gln Val Glu Asn Asp Ala  
 1 5 10

<210> 1311  
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 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1311  
 Asn Ser Lys Asp His Leu  
 1 5

<210> 1312  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1312  
 Pro Gly Thr Asp Arg Thr Ala Asn Val Lys Tyr Arg Gln Val  
 1 5 10

<210> 1313  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1313  
 Phe Thr Lys Ile Lys Thr Ser Asp His Gln Tyr Met Glu Gly  
 1 5 10

<210> 1314  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>

<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1314  
Ala Gly Leu Asp Ala Gln Met Val Met Gln Asp Asp Ala Ile  
1 5 10

<210> 1315  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1315  
Val Gly Gly Trp Ala Gly Phe Asp Ala Gln Val Val Met Gln  
1 5 10

<210> 1316  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1316  
Ile Thr Ala Asp Gln Leu Ser Gly Val Gly Gly Trp Ala Gly  
1 5 10

<210> 1317  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1317  
Val Gln Pro Gln Ile Asn Met Thr Ala Asp Gln Leu Leu Gly  
1 5 10

<210> 1318

<211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1318  
 Asn Tyr Lys Asp Gln Leu Pro Gln Leu Asn Val Arg Val Leu  
 1 5 10

<210> 1319  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1319  
 Leu Met Lys Phe Tyr Leu Leu Leu Thr Gly Ile Pro Val Ile  
 1 5 10

<210> 1320  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1320  
 Ala Leu Thr Ala Leu Ser Gly Arg Arg Ala Gly Thr Arg Leu  
 1 5 10

<210> 1321  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

## CURA-99

&lt;400&gt; 1321

His	Leu	Ala	Ala	Glu	Arg	Gly	Ala	Glu	Ile	Arg	Ser	Leu	Cys
1				5					10				

&lt;210&gt; 1322

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1322

Thr	Ile	Phe	Leu	Ser	Lys	Phe	Gln	Thr	Asp	Val	Arg	Glu	Lys
1				5					10				

&lt;210&gt; 1323

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1323

Ala	Leu	Ser	Tyr	Gly	Phe	His	Gly	Cys	His	Cys	Gly	Val	Gly
1				5					10				

&lt;210&gt; 1324

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1324

Ile	Ala	Cys	Pro	Glu	Thr	Gly	Thr	Pro	Ala	Val	Ile	Thr	Cys
1				5					10				

&lt;210&gt; 1325

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1325

Val Cys Pro Ile Arg Asp Ser Cys Arg Trp Val Ile Asp Gly  
 1 5 10

<210> 1326  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
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 <222> (7)...(0)  
 <223> cSNP translation

<400> 1326

Leu Ser Ala Trp Pro Glu Pro Asp Gln Ala Ser Arg Cys Leu  
 1 5 10

<210> 1327  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1327

Ile Ser Phe Ile Phe Arg Lys Gly Arg Lys Asn Ser Gly Ile  
 1 5 10

<210> 1328  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1328

His Glu Ile Met Gly Pro Glu Lys Lys His Leu Asp Tyr Leu  
 1 5 10

<210> 1329  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1329  
Glu Ile Met Gly Pro Lys Asn Lys His Leu Asp Tyr Leu Ile  
1 5 10

<210> 1330  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1330  
Glu Met Asn Val Asn Ile Ser Gln Leu Ala Asp Ser Leu Phe  
1 5 10

<210> 1331  
<211> 13  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1331  
Glu Gln Ser Val Gln Ser Gln Pro Glu Glu Glu Asp Glu  
1 5 10

<210> 1332  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation



&lt;400&gt; 1332

Arg Thr Arg Ala Cys Phe Arg Gln Trp Leu Cys Arg Leu His  
1 5 10

&lt;210&gt; 1333

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1333

Ala Cys Phe Thr Gln Trp Pro Cys Arg Leu His Asn Glu Val  
1 5 10

&lt;210&gt; 1334

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1334

Met Val Thr Ser Ser Ala Met Ser Ser Leu Ala Cys Ile Ile  
1 5 10

&lt;210&gt; 1335

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1335

Val Ala Met Leu Leu Pro Asn Trp Lys Thr Ser Ser Tyr Val  
1 5 10

&lt;210&gt; 1336

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1336  
 Leu Gln Pro Ser Thr Ser Arg Asp Gln Pro Val Thr Ser Glu  
 1 5 10

<210> 1337  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
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 <222> (7)...(0)  
 <223> cSNP translation

<400> 1337  
 Ser Thr Ser Thr Asp Gln Leu Val Thr Ser Glu Pro Thr Ser  
 1 5 10

<210> 1338  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1338  
 Thr Asp Gln Pro Val Thr Pro Glu Pro Thr Ser Gln Ala Thr  
 1 5 10

<210> 1339  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1339  
 Thr Ser Glu Pro Thr Ser Arg Ala Thr Arg Gly Arg Lys Asn  
 1 5 10

<210> 1340  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1340  
 Val His Gln Glu Ala Thr Ala Arg Leu Ser Gly Ser Gly Asn  
 1 5 10

<210> 1341  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1341  
 Arg Ile Lys Met Glu Glu Tyr Ala Leu Leu Ser Asp Pro Val  
 1 5 10

<210> 1342  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
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 <222> (7)...(0)  
 <223> cSNP translation

<400> 1342  
 Arg Ala Arg Arg Ser Asn Cys Arg Arg Gln Glu Gly Ile Lys  
 1 5 10

<210> 1343  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)

<223> cSNP translation

<400> 1343

Gly Trp Arg Ala Ile Asn Ser Ser Met Ala Ala Pro Ser Ser  
1 5 10

<210> 1344

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1344

Glu Pro Leu Asn Ser Arg Gly Asn Lys Leu His Phe Ala Phe  
1 5 10

<210> 1345

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1345

Ile Asn Pro Leu Gly Asp Trp Ile Ile Asn Ala Phe Phe Pro  
1 5 10

<210> 1346

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1346

Ser Arg Glu Asp Phe Gln Gly Ile Pro Glu Leu Ala Ile Asn  
1 5 10

<210> 1347

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1347

Leu Glu Gln Glu Tyr Glu Asn Lys Leu Arg Ala Glu Leu Val  
1 5 10

<210> 1348

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1348

Glu Val Ser Ala Asp Gly Glu Thr Ile Thr Val Thr Phe Phe  
1 5 10

<210> 1349

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1349

Ala Lys Lys Glu Met Val Ser Ser Lys Leu Pro Asn Ser Val  
1 5 10

<210> 1350

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1350

Ile Gln Pro Asp Gly Ser Gly Ser Ala Val Leu Trp Cys Asp

1

5

10

&lt;210&gt; 1351

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1351

Lys Trp Phe Glu Val Lys His Ile Ser Thr Glu Glu Ile Ser

1

5

10

&lt;210&gt; 1352

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1352

Lys Ser His Phe Gln Ala Thr His Ser Glu Ser Ser Asp Thr

1

5

10

&lt;210&gt; 1353

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1353

Thr Met Gly Ser Thr Glu Ala Arg Val Asp Tyr Met Gly Ser

1

5

10

&lt;210&gt; 1354

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1354

Ser Lys Glu Ala Ile His Ile Gln Leu Leu Glu Lys Gln Lys  
1 5 10

<210> 1355

<211> 6

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1355

Val Cys Gly Asp Ala Ser  
1 5

<210> 1356

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1356

Gln Ala Gln Ala Gln Ser Tyr Cys Ser Cys Ser Thr Val Ser  
1 5 10

<210> 1357

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1357

Glu Glu Val Lys Val Ser Trp Thr Arg Leu Pro Thr Ser Cys  
1 5 10

<210> 1358

<211> 14

<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1358  
Lys Pro Ile Thr Arg Lys Gly Val Gly His Arg Met Gly Gly  
1 5 10

<210> 1359  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1359  
Arg Ser Cys Ser His Pro Ser Gln Leu His Arg Leu Val Phe  
1 5 10

<210> 1360  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1360  
Ala Gly Thr Tyr Pro Arg Arg Glu Glu Tyr Arg Arg Gly Ile  
1 5 10

<210> 1361  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1361



## CURA-99

Thr Ile Ser Pro Leu Thr Leu Val Ser Val Ser Pro Ala Asn  
 1 5 10

<210> 1362  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1362  
 Met Gly Ser His Glu Pro Met Ile Ser Pro Leu Thr Pro Val  
 1 5 10

<210> 1363  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (8)...(0)  
 <223> cSNP translation

<400> 1363  
 Arg Ile Gly Leu Gly Leu Gly Gly Arg Trp Ala Trp Arg Leu  
 1 5 10

<210> 1364  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (8)...(0)  
 <223> cSNP translation

<400> 1364  
 Val Met Arg Ile Gly Leu Gly Trp Ala Gly Arg Trp Ala Trp  
 1 5 10

<210> 1365  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>

<221> VARIANT  
 <222> (8)...(0)  
 <223> cSNP translation

<400> 1365  
 Gly Leu Thr Gln Asn Lys Ala Cys Gln Lys Thr Leu Ser Met  
 1 5 10

<210> 1366  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1366  
 Val Gln Trp Val Ala Pro Arg Gly Cys Cys Tyr Gly Ser Ser  
 1 5 10

<210> 1367  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1367  
 Pro Gly Asn Asn Arg Lys Cys Met Asn  
 1 5

<210> 1368  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1368  
 Ser Val Gly Ala Leu Glu Ala Asn Ser Arg Arg Lys Leu Ala  
 1 5 10

<210> 1369

<211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1369  
 Cys Gln Gly Asp Ser Gly Ala Arg Trp Cys Val Arg Thr Lys  
 1 5 10

<210> 1370  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1370  
 Cys Gln Gly Asp Ser Gly Ala Arg Trp Cys Val Arg Thr Lys  
 1 5 10

<210> 1371  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (8)...(0)  
 <223> cSNP translation

<400> 1371  
 Ile Glu Thr Tyr Phe Ser Lys Thr Thr Lys Thr Met Ser Ile  
 1 5 10

<210> 1372  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (8)...(0)  
 <223> cSNP translation

## CURA-99

&lt;400&gt; 1372

Pro	Leu	Ser	Gly	Ala	Leu	Ala	Gln	Ser	Leu	Arg	Pro	Ser	Lys
1				5					10				

&lt;210&gt; 1373

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1373

Trp	Met	Arg	Asn	Arg	Arg	Thr	Val	Pro	Arg	Gln	Pro	Ser	Glu
1				5					10				

&lt;210&gt; 1374

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (8)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1374

Phe	Ser	Gly	Arg	Leu	Lys	Ala	Glu	Gly	Thr	Ser	Cys
1				5					10		

&lt;210&gt; 1375

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (8)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1375

Leu	His	Arg	Ala	Phe	Ser	Val	Ser	Tyr	Ser	Thr	Pro	Lys	Ile
1				5					10				

&lt;210&gt; 1376

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1376

Ser	Lys	Val	Leu	Glu	Glu	Gly	Arg	Pro	Pro	Arg	Arg	Ala	Cys
1				5					10				

&lt;210&gt; 1377

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (8)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1377

Ala	Glu	Glu	Gly	Leu	Arg	Glu	Cys	Ser	Ala	Ala	Gly	Gly	Ser
1				5					10				

&lt;210&gt; 1378

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (8)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1378

Glu	Leu	Gln	Arg	Ser	Arg	Arg	Ser	Ala	Thr	Arg	Thr	Trp	Arg
1				5					10				

&lt;210&gt; 1379

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (8)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1379

Glu	Asp	Val	Glu	Ala	Leu	Ala	Pro	Ser	Thr	Arg	Arg	Arg	Arg
1				5					10				

<210> 1380  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1380  
Glu Ile Asn Cys Arg Arg Arg Thr Met Gly Thr Ser Ser Pro  
1 5 10

<210> 1381  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1381  
Gly Met Glu His His Val Ala Pro Ala Ser Pro Lys Trp Ser  
1 5 10

<210> 1382  
<211> 9  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (10)...(0)  
<223> cSNP translation

<400> 1382  
Val Ala Ala Glu Ala Leu Leu Lys Lys  
1 5

<210> 1383  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

&lt;400&gt; 1383

Gly	Cys	Pro	Lys	Met	Gly	Thr	Met	Leu	Thr	Asn	Leu	Arg	Gly
1				5					10				

&lt;210&gt; 1384

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1384

Pro	Cys	Pro	Ala	Glu	Gly	Ser	Pro	Lys	Trp	Gly	Thr	Met	Leu
1				5					10				

&lt;210&gt; 1385

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1385

Ala	His	Thr	Ala	Ala	Glu	Gly	Ala	Gly	Gly	Trp	Gly	Ala	Ala
1				5					10				

&lt;210&gt; 1386

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1386

Leu	Gln	Glu	Thr	Leu	Leu	Gly	Leu	Phe	Gly	Leu	Trp	Cys
1				5					10			

&lt;210&gt; 1387

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1387  
 Asp Lys Ala Glu Lys Thr Lys Lys Lys Lys Lys Lys Arg Lys  
 1 5 10

<210> 1388  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1388  
 Lys Lys Glu Cys Tyr Tyr Ile Ser Met Thr Pro Val Ser Val  
 1 5 10

<210> 1389  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1389  
 Glu Ser Leu Ile Asp Glu Glu Arg  
 1 5

<210> 1390  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1390  
 Glu Tyr Lys Leu Val Val Gly Ala Pro Ala Val Trp Ala Arg  
 1 5 10



<210> 1391  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (8)...(0)  
 <223> cSNP translation

<400> 1391  
 Glu Tyr Lys Leu Val Val Val Ala Pro Ala Val Trp Ala Arg  
 1 5 10

<210> 1392  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1392  
 Tyr Lys Leu Val Val Val Ala Pro Ala Val Trp Ala Arg Val  
 1 5 10

<210> 1393  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1393  
 Tyr Asp Ala Asp Ala Gly Arg Met Thr Cys His Cys Trp Ser  
 1 5 10

<210> 1394  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (9)...(0)

<223> cSNP translation

<400> 1394

Met Arg Tyr Asp Ala Asp Ala Gly Gly Glu  
1 5 10

<210> 1395

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (8)...(0)

<223> cSNP translation

<400> 1395

Tyr Ile Asp Ile Gln Leu Arg Leu Leu Pro Ser His Arg Thr  
1 5 10

<210> 1396

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1396

Ala Pro Lys Ser Ala Cys Val Cys Ala Gln Ala Asp Phe Glu  
1 5 10

<210> 1397

<211> 9

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (8)...(0)

<223> cSNP translation

<400> 1397

Gly Val Ser Gly Val Lys Pro Gln Gly  
1 5

<210> 1398

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1398

Leu Lys Pro Val Pro Val Gly Lys Arg Thr Arg Ala Ser Ser  
1 5 10

<210> 1399

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1399

Asp Arg Val Pro Leu Arg Thr Arg Thr Ser Pro Leu Lys Arg  
1 5 10

<210> 1400

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1400

Leu Glu Asn Ser Gln Met Lys Ser Ala Cys Cys Cys Lys Pro  
1 5 10

<210> 1401

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (9)...(0)

<223> cSNP translation

<400> 1401

Leu Leu Ala Met Leu Gln Gly Pro Gly Pro Trp Leu Arg Pro

1

5

10

&lt;210&gt; 1402

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1402

Ser Glu Leu Arg Gly Gly Leu Thr Gly Ala Ser Thr Ser Ser

1

5

10

&lt;210&gt; 1403

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1403

Val Ala Leu Ser Ser Ala Gly Val Leu Ser Pro Met Val Ala

1

5

10

&lt;210&gt; 1404

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (9)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1404

Leu Val Lys Leu Lys Leu Lys Lys Ile Pro Trp Met Thr Phe

1

5

10

&lt;210&gt; 1405

&lt;211&gt; 11

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1405

Ser Asn Ser Ile Ser Val Met Gly Val Ser Arg

1

5

10

&lt;210&gt; 1406

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (8)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1406

Thr Glu Trp Ser Gln Trp Ser Asn Val Thr Ser His Val Gly

1

5

10

&lt;210&gt; 1407

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (8)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1407

Tyr Arg Arg Gln Gly Leu Pro Ile Thr Ile Gly Glu

1

5

10

&lt;210&gt; 1408

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (8)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1408

Val Gly Asp Ala Cys Asp Ser Ala Leu Lys

1

5

10

&lt;210&gt; 1409

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1409

Ser	Val	Glu	Pro	Glu	Arg	Asp	Leu	Thr	Phe	Leu	Leu	Thr
1				5					10			

&lt;210&gt; 1410

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1410

Leu	Gln	Ile	Met	Leu	Gln	Ala	Glu	Ser	Ala	Thr	Arg	Thr	Glu
1				5					10				

&lt;210&gt; 1411

&lt;211&gt; 8

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1411

Phe	Gly	Phe	Ser	Ser	Gly	Pro	Ser
1				5			

&lt;210&gt; 1412

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (10)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1412

## CURA-99

Pro Glu Lys Gln Leu Val Glu Lys Lys Val Leu Thr Lys Gln  
 1 5 10

<210> 1413  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (9)...(0)  
 <223> cSNP translation

<400> 1413  
 Val Val Val Met Gly Pro Pro Lys Leu Glu Arg Ala Leu  
 1 5 10

<210> 1414  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1414  
 Phe Ser Glu Asp Asp Pro Trp Arg Pro Leu Ser Ile Gly Pro  
 1 5 10

<210> 1415  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (8)...(0)  
 <223> cSNP translation

<400> 1415  
 Asn Gln Ser Gln Glu Leu Gln Arg Ser Trp Arg Thr Ala Gly  
 1 5 10

<210> 1416  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>

<221> VARIANT  
 <222> (8)...(0)  
 <223> cSNP translation

<400> 1416  
 Asn His Met Val Gln Gln Asp Ile Ser Pro Arg Pro Leu His  
 1 5 10

<210> 1417  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (8)...(0)  
 <223> cSNP translation

<400> 1417  
 Lys Trp Pro Thr Leu Gln Asp Trp Pro Val Leu Pro Trp Arg  
 1 5 10

<210> 1418  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1418  
 Phe Val Gly Arg Phe Phe Arg Ala Thr Met Ala Thr Gln Leu  
 1 5 10

<210> 1419  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (9)...(0)  
 <223> cSNP translation

<400> 1419  
 Gln Ile His Arg Ile Arg His Phe Thr  
 1 5

<210> 1420



<211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1420  
 Thr Leu Glu Glu Gly Asn Gln Gln Thr Arg Ser Pro Val Pro  
 1 5 10

<210> 1421  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (8)...(0)  
 <223> cSNP translation

<400> 1421  
 Ala Thr Leu Glu Glu Gly Asn Gln Gln Thr Arg Ser Pro Val  
 1 5 10

<210> 1422  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1422  
 Ile Leu Asn Gln Pro Thr Leu Arg Leu Leu Pro Met Pro Glu  
 1 5 10

<210> 1423  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

## CURA-99

&lt;400&gt; 1423

Val Asn Cys Ser Ala Val Cys Ala Ser Ser Ser Val Pro Cys  
1 5 10

&lt;210&gt; 1424

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1424

Ala Ala Pro Leu Lys Ile Lys Leu Ile Ser Met Arg Leu Gln  
1 5 10

&lt;210&gt; 1425

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1425

Glu Glu Val Glu Glu Glu Gly Glu Lys Arg Met Phe Ser Pro  
1 5 10

&lt;210&gt; 1426

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (9)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1426

Arg Val Gly Thr Pro Ser Gln Gly His Phe Phe Glu Gly Ala  
1 5 10

&lt;210&gt; 1427

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (8)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1427

Pro Cys Ala Val Leu Arg Pro Leu Gly Leu Trp Ser Pro Ser  
1 5 10

&lt;210&gt; 1428

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1428

Leu Gly Tyr Thr Pro Gln Arg Pro Val Lys Cys Ala Ser Cys  
1 5 10

&lt;210&gt; 1429

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (9)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1429

Phe Gln Ala Ala Ile Glu Lys Lys Asn Ser Cys Ile Ser Thr  
1 5 10

&lt;210&gt; 1430

&lt;211&gt; 4

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1430

Leu Leu Tyr Trp  
1

&lt;210&gt; 1431

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1431

Phe	Cys	Asn	Gly	Gln	Arg	Ser	Gly	Ser	Pro	Gly	Arg	Gln	Ile
1				5					10				

&lt;210&gt; 1432

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1432

Met	Lys	Ile	Gln	Tyr	Pro	Ala	Trp	Pro	Arg	Ala	Ser	Thr	Val
1			5						10				

&lt;210&gt; 1433

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1433

Met	Lys	Ile	Gln	Tyr	Pro	Ala	Trp	Pro	Arg	Ala	Ser	Thr	Val
1			5						10				

&lt;210&gt; 1434

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (9)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1434

Glu	Pro	Leu	Glu	Met	Ala	Arg	Pro	Leu	Ala	His	Pro	Val	Ala
1				5					10				

<210> 1435  
 <211> 1  
 <212> PRT  
 <213> Homo sapiens

<400> 1435  
 Ser  
 1

<210> 1436  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1436  
 Arg Leu Asp Arg Glu Arg Lys Lys Asp Lys Asn Glu Arg Gly  
 1 5 10

<210> 1437  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1437  
 Glu Ser Lys Arg Ser Val Lys Leu  
 1 5

<210> 1438  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (8)...(0)  
 <223> cSNP translation

<400> 1438  
 Asp Ile Ser Ile Cys Gln Glu Cys Pro Ala Trp Arg  
 1 5 10

<210> 1439  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (8)...(0)  
 <223> cSNP translation

<400> 1439  
 Ser Leu Phe Ser Leu Lys Gln Ser Ser Arg Arg Thr Lys Thr  
 1 5 10

<210> 1440  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1440  
 Thr Ser Leu Leu Gln Gly Thr Pro Thr  
 1 5

<210> 1441  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (8)...(0)  
 <223> cSNP translation

<400> 1441  
 Ile Ile Leu Ile Val Glu Leu Ala Gly Ser Arg Pro Ala Ser  
 1 5 10

<210> 1442  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

&lt;400&gt; 1442

Ile	Leu	Ile	Val	Glu	Leu	Ser	Gly	Ser	Arg	Pro	Ala	Ser	Pro
1				5					10				

&lt;210&gt; 1443

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (8)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1443

Asn	Thr	Gln	Gln	Gln	Gln	Asn	Tyr	Ile	Arg	Trp	Ser	Leu
1			5					10				

&lt;210&gt; 1444

&lt;211&gt; 8

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1444

Thr	Gln	Gln	Gln	Gln	Leu	His
1			5			

&lt;210&gt; 1445

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1445

Tyr	Pro	Ala	His	Ala	Phe	Trp	Arg	Pro	Ser	Ser	Gly	Val	Ser
1				5					10				

&lt;210&gt; 1446

&lt;211&gt; 6

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1446  
 Gly Ala Tyr Ala Gln Ala  
 1 5

<210> 1447  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1447  
 Ser Thr Ala Leu Arg Ala Asp Ser Thr Gly  
 1 5 10

<210> 1448  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (7)...(0)  
 <223> cSNP translation

<400> 1448  
 Arg Val Leu Ile Leu Asp Thr Phe Thr Cys Leu Leu Cys Leu  
 1 5 10

<210> 1449  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> VARIANT  
 <222> (8)...(0)  
 <223> cSNP translation

<400> 1449  
 Tyr Arg Gln Val Asp His Phe Pro Gln Ile His  
 1 5 10



<210> 1450  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1450  
Lys Leu Leu Val Cys Asn Met Met Asp Val Ser Pro Met Ala  
1 5 10

<210> 1451  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1451  
Asp Trp Asn Ser Ser Lys Thr Thr Val Pro Leu Asn Met Pro  
1 5 10

<210> 1452  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (7)...(0)  
<223> cSNP translation

<400> 1452  
Leu Ser Glu Ala Pro Gly Ser Leu Pro Gln Pro Leu Ser His  
1 5 10

<210> 1453  
<211> 14  
<212> PRT  
<213> Homo sapiens

<220>  
<221> VARIANT  
<222> (8)...(0)

<223> cSNP translation

<400> 1453

Thr Ile Lys Ser Ala Val Ala Ser Gly Ile Ser Leu Pro Arg  
1 5 10

<210> 1454

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (8)...(0)

<223> cSNP translation

<400> 1454

Pro Asp Arg Val Gly Arg Gln Ser Leu Lys Ser Ser Leu Glu  
1 5 10

<210> 1455

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (8)...(0)

<223> cSNP translation

<400> 1455

Val Cys Thr Ala Arg Ser Pro Ser Val Arg Ser Ala Arg Ser  
1 5 10

<210> 1456

<211> 6

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1456

Asn Gln Glu Gly Asp Phe  
1 5

<210> 1457

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (8)...(0)

<223> cSNP translation

<400> 1457

Leu Gln Val Pro Ala Val Thr Gly Leu Thr Pro Gln Pro Val  
1 5 10

<210> 1458

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (8)...(0)

<223> cSNP translation

<400> 1458

Ser Val Gln Arg Val Arg Gln Ser Val Lys Asn Leu Ile Lys  
1 5 10

<210> 1459

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1459

Thr Ala Glu Glu Met Tyr Ile Tyr Leu Gly Asn Met Asp Leu  
1 5 10

<210> 1460

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (8)...(0)

<223> cSNP translation

<400> 1460

Ala His Gln Gly Asn Leu Ala Pro Val Phe Ile Ala Met Gln

1

5

10

&lt;210&gt; 1461

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1461

Pro Gly Glu His Thr Pro Cys Trp Pro Leu Pro Arg Pro Ser

1

5

10

&lt;210&gt; 1462

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (7)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1462

Arg Met Leu Asp Val Leu Gly Leu Ser Thr Ser Cys Arg Cys

1

5

10

&lt;210&gt; 1463

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; (8)...(0)

&lt;223&gt; cSNP translation

&lt;400&gt; 1463

Val Asp Glu Leu Pro Val Gln Ala Gly Ala Ala Thr Gly Ser

1

5

10

&lt;210&gt; 1464

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1464

Ala Tyr His Ser Gly Tyr Glu Pro Thr Ala Pro Ser Thr Gly  
1 5 10

<210> 1465

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (8)...(0)

<223> cSNP translation

<400> 1465

Val Met Asn Asp Leu Ser Gly Glu Pro Trp Thr Arg Arg Pro  
1 5 10

<210> 1466

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (8)...(0)

<223> cSNP translation

<400> 1466

Arg Lys Gln Ala Val Arg Leu Arg Arg Ile Phe Ser Ala Ile  
1 5 10

<210> 1467

<211> 8

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (8)...(0)

<223> cSNP translation

<400> 1467

Ile Asp Ala Leu Arg Gly Arg Ala  
1 5

<210> 1468

<211> 11

CURA-99

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 1468

Ser	Cys	Arg	Phe	Arg	Glu	Ala	Thr	Trp	Ala	Thr
1				5					10	